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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/507,342	09/10/2004	Bart-Hendrik Huisman	NL 020257	2859
24737	7590 11/16/2006		EXAMINER	
PHILIPS IN	TELLECTUAL PROPE	NGUYEN, JOSEPH H		
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
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DATE MAILED: 11/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/507,342	HUISMAN ET AL.		
Office Action Summary	Examiner	Art Unit		
	Joseph Nguyen	2815		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	rith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a vill apply and will expire SIX (6) MO , cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on <u>07 Second</u> 2a) ☐ This action is FINAL . 2b) ☐ This action is FINAL . 2b) ☐ This closed in accordance with the practice under Example 2.	action is non-final.			
Disposition of Claims	•			
4) ☐ Claim(s) 1-8,11 and 12 is/are pending in the ap 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8,11 and 12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	:		
Application Papers		,		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 10 September 2004 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	are: a) accepted or b) of drawing(s) be held in abeyation is required if the drawing	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/2/05.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 		

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DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group I including claims 1-8 and 11-12 in the reply filed on 09/07/2006 is acknowledged. The traversal is on the ground(s) that Group I should comprise claims 1-8, 10 and 12 because they are directed to product made and group II should comprise claims 9 and 11 because they are directed to process of making. This is found persuasive because in light of the amendment to claims, claims 1-8, 10 and 12 are now directed to product. As such, claims 1-8, 10 and 12 are prosecuted herein.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 7 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The limitation, "the active layer between the first and second active element is removed" is not described in the specification to enable one skilled in the art to make and/or use.

Further, how can this device work without the active layer, which contains a semiconductive or electroluminescent organic material?

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 10 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Ohsedo et al. (Synthesis and electrochromic properties of a methacrylate polymer containing pendant terthiophene).

Regarding claim 10, Ohsedo et al. discloses in page 159 the chemical formula of the claimed monomer having a conjugated unit and non-conjugated units as recited in claim 10.

Regarding claim 12, applicant admitted in page 2, lines 21-30 of the instant application Ohsedo et al. discloses the claimed polymer. It is noted that the polymer disclosed by Ohsedo et al. may be doped but still meet the claimed polymer, which does not exclude "doped" or "undoped" in its recitation. Further, Ohsedo et al. discloses the acrylate monomers having oligothiophenes will produce polymers (page 157, right column). Applicant teaches the reactive end group is acrylate (page 3, lines 8-9). As such, Ohsedo et al. teaches of the reactive end group.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6, 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ong et al. (US 6,949,762 B2) in view of Ohsedo et al.

Regarding claim 1, Ong et al. discloses in figure 1 an electronic device with an active element having a first and second electrode 20, 22, which are separated from each other by an active layer 12 containing a semiconductive material (column 22, lines 53-60). Ong et al. does not disclose the claimed polymer. However, applicant admitted in page 2, lines 21-30 of the instant application Ohsedo et al. discloses the claimed polymer. In view of such teaching, it would have been obvious at the time of the present invention to modify Ong et al. by including the polymer disclosed by Ohsedo et al. as a potential electrochromic material to form as an active layer such that the electronic device can function in a better manner.

Regarding claims 2-4, Ohsedo et al. discloses the characteristics of the claimed polymer (See pages 158-160).

Regarding claim 6, Ohsedo et al. discloses in page 159 the chemical formula of the claimed conjugation unit.

Regarding claim 7, as best understood, the Examiner takes the Official Notice that it would have been obvious at the time of the present invention to form another

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active element on said active element since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis paper Co. vs. Bemis Co., 193 USPQ 8.

Regarding claim 8, Ong et al. discloses in figure 1 the active element is a transistor wherein a third electrode 18 separated from the active layer 12 by a dielectric 14 and wherein the active layer 12 comprises an intrinsic undoped semiconductor material (column 22, lines 53-60). It is noted that Ong et al. teaches layer 12 is the polythiophene semiconductor layer (column 22, lines 59-60), which is intrinsic and undoped.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ong et al. (US 6,949,762 B2) and Ohsedo et al. in view of Talroze et al. (US 6,563,132 B1).

Regarding claim 5, Ong et al. and Ohsedo et al. disclose substantially all the structure set forth in claim 5 except the polymer including the intermediate unit comprising a mesogenic group. However, Talroze et al. discloses in column 5, lines 8-14 the polymers include mesogenic to provide liquid crystal form and desirable physical and/or chemical properties. In view of such teaching, it would have been obvious at the time of the present invention to modify Ong et al. and Ohsedo et al. by including the polymer including the intermediate unit comprising a mesogenic group to provide liquid crystal form and desirable physical and/or chemical properties.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Nguyen whose telephone number is (571) 272-1734. The examiner can normally be reached on Monday-Friday, 8:30 am- 5:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300 for regular communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph Nguyen

November 7, 2006.

KENNETH PARKER
SUPERVISORY PATENT EXAMINER